

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF EXCLUSIVE/PERMISSIVE PHASING FOR THE EASTBOUND APPROACH OF THE INTERSECTION OF MD 174 (QUARTERFIELD ROAD) AND THELMA AVENUE, IN ANNE ARUNDEL COUNTY. MD 174 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA SIX PHASE, FULL TRAFFIC ACTUATED MODE. EASTBOUND EXCLUSIVE/PERMISSIVE LEFT TURN PHASING IS PROPOSED AND THE EXISTING NORTHBOUND EXCLUSIVE/PERMISSIVE LEFT TURN PHASING WILL REMAIN.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET, CONTROLLER EQUIPMENT, AND ASSOCIATED HARNESSES SHALL REMAIN. THE SHA SIGNAL SHOP SHALL INSTALL ONE (1) VIDEO DETECTION INTERFACE EQUIPMENT; 1-4 CAMERAS IN THE EXISTING CABINET.

THE CONTACT PERSONS FOR DISTRICT #5 ARE AS FOLLOWS:

Ms. Kimberly Tran  
Assistant District Engineer - Traffic  
Phone: 410-841-1019

Mr. Mike Huber  
District Utility Engineer  
Phone: 410-841-1039

Mr. John S. Mays  
Assistant District Engineer - Maintenance  
Phone: 410-841-1013

OFFICE OF TRAFFIC AND SAFETY:

Mr. Richard L. Daff Sr.  
Chief, Traffic Operations Division  
Phone: 410-787-7630

Mr. Robert Snyder  
Assistant Division Chief, Traffic Operations  
410-787-7630

Mr. Edward Rodenhizer  
Team Leader, Signal Operations  
Phone: 410-787-7650

Mr. Eugene Bailey  
Team Leader, Sign Operations  
410-787-7670

The Power Company is:

Baltimore Gas & Electric  
1068 N. Front Street  
Baltimore, Maryland 21202  
Phone: 410-673-8713

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO.	QUANTITY	DESCRIPTION
9086	1 EA	VIDEO DETECTION INTERFACE EQUIPMENT; 1-4 CAMERAS

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
1003	1 EA	MAINTENANCE OF TRAFFIC
8003	3 EA	8 INCH LED SIGNAL HEAD SECTION
8014	28 EA	LED SIGNAL HEAD MODULES (ANY SIZE)
8021	1 EA	REMOVE & DISPOSE OF MATERIAL & EQUIPMENT (PER ASSIGNMENT)
8025	3 EA	VIDEO DETECTION CAMERA & CABLE UP TO 500 FT
8050	7 EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8057	450 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)

EQUIPMENT LIST 'C'

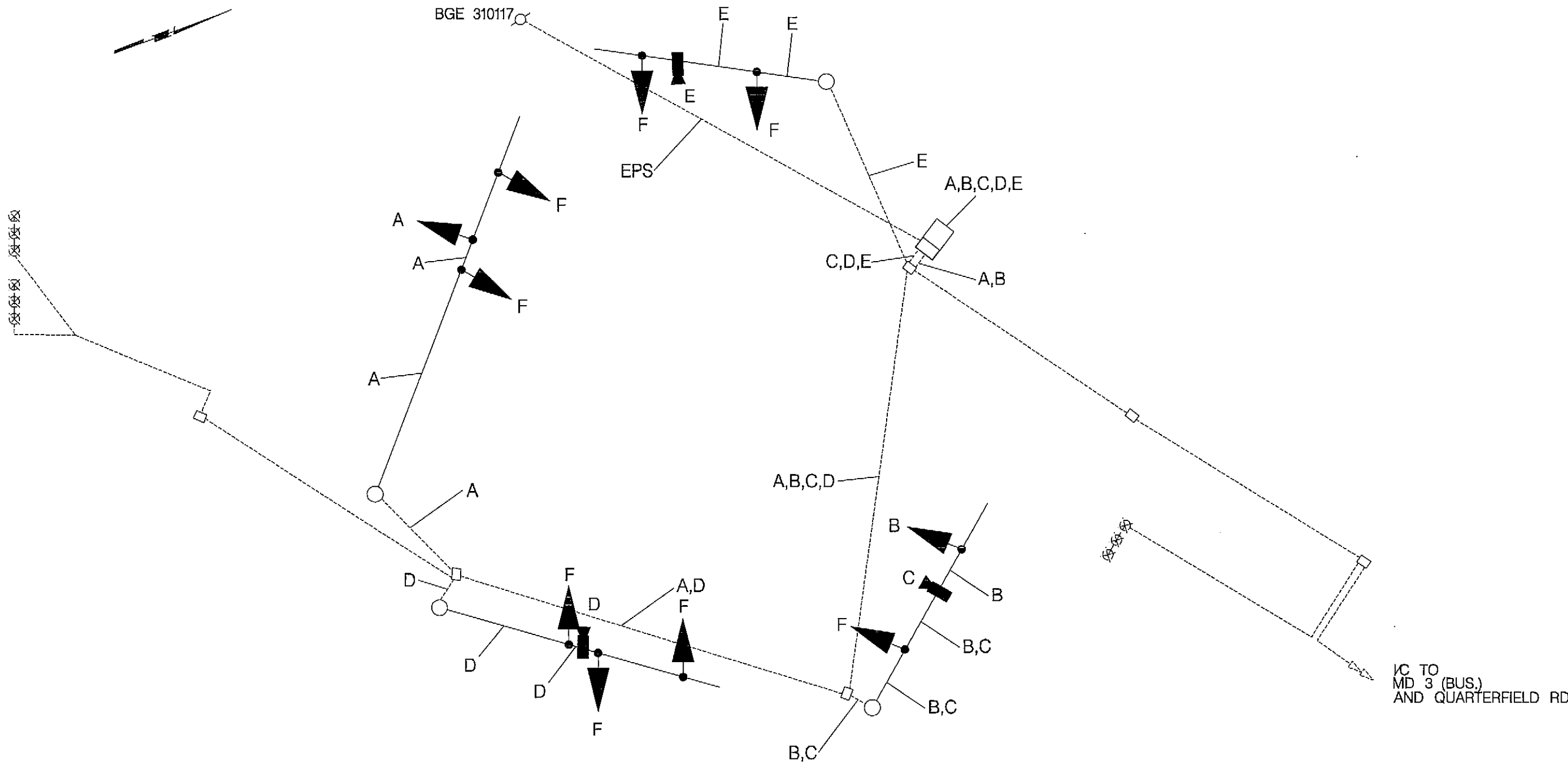
EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ITEM NO.	QUANTITY	DESCRIPTION
	2 EA	VIDEO DETECTION CAMERA

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	
PHASE 1 AND 6			G	R	R	R	R	R	R	R	
PHASE 1 AND 6 CHANGE			G	R	R	R	R	R	R	R	
PHASE 2 AND 6	G	G	G	G	G	R	R	R	R	R	
PHASE 2 AND 6 CHANGE	Y	Y	Y	Y	Y	R	R	R	R	R	
PHASE 3 AND 8	R	R	R	R	R			G	R	R	
PHASE 3 CHANGE	R	R	R	R	R			G	R	R	
PHASE 4 AND 8	R	R	R	R	R	G	G	G	G	G	
PHASE 4 AND 8 CHANGE	R	R	R	R	R	Y	Y	Y	Y	Y	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	

WIRING DIAGRAM



WIRING LEGEND

- ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
- CONTROL CABLE - VIDEO DETECTION CAMERA TO CONTROLLER
- USE EXISTING CABLE
- EXISTING POWER SERVICE

STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
  
MD 174 (QUARTERFIELD ROAD) AND THELMA AVENUE  
  
GLEN BURNIE, MARYLAND

GENERAL INFORMATION

SCALE	NONE	ADVERTISED DATE	06 / 2011	CONTRACT NO.	XX3475185
DESIGNED BY	SDY	COUNTY	ANNE ARUNDEL		
DRAWN BY	SK	LOGMILE	02017405.79		
CHECKED BY	SDY	TMS NO.	K714		
F.A.P. NO.		TOD NO.			
TS NO.	1274 C	DRAWING	SG - 02 OF 02	SHEET NO.	2 OF 2